

Amendments To The Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A bi-point detection type heart-rate monitor comprising:

two electrically conductive contact terminals for the touching of the two hands or feet of a person;

an amplifier-filter circuit ~~adapted to sample~~ which samples an impedance signal between said contact terminals, ~~to amplify~~ amplifies the impulse of the sampled impedance signal, and ~~to remove~~ removes noises from the sampled impedance signal;

a waveform converter ~~adapted to rectify~~ which rectifies outputted waveform from said amplifier-filter circuit into a square wave; [[and]]

a processing and output circuit ~~adapted to receive and process~~ which receives and processes the square wave signal outputted by said wave form converter, ~~to obtain the~~ obtains a mean frequency of peaks of the received square wave signal by means of a computing process, and ~~to output the~~ outputs a frequency value thus obtained to a display unit for display, and

a detection unit which detects simultaneous touching of said contact terminals by the person to be examined, and outputs said frequency value of said processing and output circuit to said display unit when the detection result is positive or outputs a warning signal of said processing and output circuit when a detection result of the detection unit is negative.

Claim 2. (Canceled)

3. (Currently Amended) The bi-point detection type heart-rate monitor as claimed in claim 2, wherein said detection unit comprises two infrared transmitting receiving devices respectively installed in said contact terminals, and a detection circuit ~~adapted to detect~~ which detects triggering of said infrared transmitting receiving devices.

4. (Original) The bi-point detection type heart-rate monitor as claimed in claim 3, wherein said infrared transmitting receiving devices are respectively located on the geographical center of said contact terminals.

5. (Currently Amended) The bi-point detection type heart-rate monitor as claimed in claim 4, wherein said contact terminals each have a hole disposed at the respective geographical center and ~~adapted to~~ respectively accommodate said infrared transmitting receiving devices ~~respectively~~.

6. (Currently Amended) The bi-point detection type heart-rate monitor as claimed in ~~claim 2~~ claim 1, wherein said detection unit comprises two thin-film switches respectively installed in said contact terminals, and a detection circuit adapted to detect triggering of said thin-film switches.

7. (Currently Amended) The bi-point detection type heart-rate monitor as claimed in ~~claim 2~~ claim 1, wherein said detection unit comprises two micro switches respectively installed in said contact terminals, and a detection circuit adapted to detect triggering of said micro switches.

8. (Original) The bi-point detection type heart-rate monitor as claimed in claim 1, wherein said processing and output circuit is a microprocessor.

9. (Currently Amended) A bi-point detection type heart-rate monitoring method comprising the steps of:

(a) letting the hands (legs) of the person to be examined hold a respective contact terminal;

(b) using a circuit to apply a predetermined voltage to the two contact terminals in contact the hands (legs) of the person to be examined, and then measuring the impedance signal between the two contact terminals;

(c) driving an amplifier-filter circuit to amplify the impedance signal thus measured and to remove noises from the signal;

(d) driving a waveform converter to rectify outputted waveform from the amplifier-filter circuit into a square wave;

(e) driving a processing and output circuit to receive and process the square wave signal outputted by said wave form converter, to obtain the mean frequency of peaks of the received square wave signal by means of a computing process, and to output the frequency value thus obtained to a display unit for display; and

(f) driving a detection unit to detect contact between the hands (legs) of the person to be examined and the respective contact terminals before step (a), and then proceeding to step (b) only when positive contact between the hands (legs) of the person to be examined and the respective contact terminals has been detected; or

producing a warning signal when said detection unit detects that the hands (legs) of the person to be examined are not simultaneously touching the respective contact terminals and if so, stopping the monitoring action based on the warning signal.

Claims 10-12 (Canceled)